1	UNITED STATES PATENT AND TRADEMARK OFFICE
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4 5	BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES
6	AND INTERFERENCES
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8	Ex parte SUSAN G. KATZ
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11	Appeal 2007-3309
12	Application 10/647,618
13	Technology Center 3600
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15	Davidade Nassambar 26, 2007
16 17	Decided: November 26, 2007
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20	Before: WILLIAM F. PATE, III, TERRY J. OWENS and
21	STEVEN D.A. McCARTHY, Administrative Patent Judges.
22	
23	McCARTHY, Administrative Patent Judge.
24	
25	DECISION ON APPEAL
26	
27	STATEMENT OF THE CASE
28	The Appellant appeals under 35 U.S.C. § 134 (2002) from the final
29	rejection of claims 1-12 and 14-23. We have jurisdiction under 35 U.S.C.
30	8 6(b) (2002)

1	Independent claim 1 is representative of the Appellant's claims and
2	reads as follows:
3	
4	1. A decorative external curtain assembly for
5	applying fabric material to an external facade of a
6	building, the assembly comprising:
7	a sheet of fabric material;
8	complementary engageable fastener strips
9	for respectively fastening the fabric material to the
10	external façade of the building; and
11	an attachment arrangement for attaching one
12	of the complementary engageable fastener strips to
13	the building and another of the complementary
14	engageable fastener strips to the fabric material;
15	and
16	wherein the complementary engageable
17	fastener strips are made of a pair of strips, one strip
18	having co-acting miniature hooks formed of a
19 20	relatively rigid filament material and another of the
21	strips having loops also formed of a relatively rigid
22	filament material which engage one another to form a bond between the building and the fabric
23	that is broken by pulling apart the pair of strips;
24	and
25	wherein the complementary engageable
26	fastener strips fasten the fabric material to the
27	external façade along an entire edge of the fabric
28	material.
29	
30	The appealed claims are rejected under 35 U.S.C. § 103(a) as being
31	unpatentable over Hillstrom (U.S. Patent 5,040,586) in light of Phillips (U.S.
32	Patent 5,074,348).
33	We affirm.

1	ISSUE
2	The sole issue in this appeal is whether the Examiner erred in
3	contending that the substitution of hook-and-loop material as taught by
4	Phillips into a system for holding and displaying a banner as taught by
5	Hillstrom would have been obvious.
6	
7	FINDINGS OF FACT
8	The record supports the following findings of fact ("FF") by a
9	preponderance of the evidence.
10	
11	1. Hillstrom discloses a system for holding and displaying a
12	banner on an exterior surface of a building. (Hillstrom, col. 1, ll. 5-7; col. 2,
13	ll. 55-68). The banner may be made from vinyl material, plastic material or
14	any "appropriate material." (Hillstrom, col. 3, ll. 23-31). The parties do not
15	dispute the Examiner's contention that the "appropriate material" for the
16	banner may be a sheet of fabric material. (See Office Action, Jan. 13, 2005
17	at 2). Hillstrom's system uses a "frame device" which suspends the banner
18	on hooks between an extruded aluminum base member screwed or nailed
19	into the building surface and an extruded aluminum cover member biased
20	over the free ends of the hooks. (Hillstrom, col. 4, l. 59 -col. 5, l. 3 and col.
21	4, ll. 8-14). Hillstrom states that the system "allows relatively quick and
22	easy changes of the banners." (Hillstrom, col. 1, ll. 51-56).
23	2. The Examiner found that "Hillstrom discloses a banner attached
24	to the exterior of a building, the banner being made of 'any appropriate
25	material,' which clearly includes a fabric. The banner is removably attached
26	so that it can be changed easily, column 2 lined [sic, lines] 29-33. It is

24

- attached to an eave at the roof line of a fast food restaurant. What is not 1 shown are the hook and loop fasteners." (Office Action, Jan. 13, 2005 at 2). 2 Although the Appellant expressly agreed that "Hillstrom fails to disclose the 3 4 use of hook and loop fasteners for attaching a banner to the exterior of a 5 building" (Br. 6), the Appellant did not traverse the Examiner's other findings as to the scope and content of Hillstrom. 6 7 3. Phillips teaches "a valance treatment for a window which is made of standard components both swags and jabot elements that can easily 8 9 be mounted to suit almost any width of window." (Phillips, col. 1, ll. 46-10 50). The swags are formed from textile materials. "Attachment strips" 11 consisting of hook and loop tape are sewn across the top of each swag. 12 (Phillips, col. 2, ll. 53-59; col. 3, ll. 1-2; and Fig. 4). The valance treatment 13 is supported by a wood strip extending from a wall. A strip of hook-tape or 14 loop-tape is attached to the top of the wood strip. The attachment strip sewn 15 to the top edge of each swag is pressed against the hook-tape or loop-tape 16 lying on the wood strip so that the swag folds over the exposed side of the 17 wood strip. (Phillips, col. 3, ll. 8-24). 18 19 PRINCIPLES OF LAW 20 A claim is unpatentable for obviousness under 35 U.S.C. § 103(a) if 21 "the differences between the subject matter sought to be patented and the 22 prior art are such that the subject matter as a whole would have been obvious 23 at the time the invention was made to a person having ordinary skill in the
- 25 383 U.S. 1 (1966), the Supreme Court set out factors to be considered in

art to which said subject matter pertains." In Graham v. John Deere Co.,

determining whether claimed subject matter would have been obvious:

1 2 Under § 103, the scope and content of the prior art 3 are to be determined: differences between the prior 4 art and the claims at issue are to be ascertained; 5 and the level of ordinary skill in the pertinent art 6 resolved. Against this background the obviousness 7 or nonobviousness of the subject matter is 8 determined. Such secondary considerations as 9 commercial success, long felt but unsolved needs, 10 failure of others, etc., might be utilized to give light to the circumstances surrounding the origin of 11 12 the subject matter sought to be patented. 13 14 Id., 383 U.S. at 17-18. In order to reject a claim under 35 U.S.C. § 103(a), an examiner must 15 establish a "prima facie" case for obviousness. If the examiner rejects the 16 claim, the applicant may submit arguments detailing reasons why the 17 applicant believes the examiner failed to make a prima facie case. Once the 18 examiner establishes a prima facie case, however, the claim is properly 19 20 rejected unless the applicant submits evidence proving sufficient new facts 21 such that the sum of the facts before the examiner does not to prove the claimed subject matter obvious. See In re Dillon, 919 F.2d 688, 692-93 22 23 (Fed. Cir. 1990) (en banc). 24 An examiner cannot establish a prima facie case that a claim is obvious "merely by demonstrating that each of its elements was, 25 26 independently, known in the prior art." KSR Int'l Co. v. Teleflex Inc., 127 S.Ct. 1727, 1741 (2007). Since not every combination of prior art references 27 28 which happens to show each of the elements recited in a claim will suffice to 29 establish a prima facie case for obviousness, the examiner must articulate reasons why the teachings of a particular combination suffice. That said, an 30

examiner establishes a prima facie case that claimed subject matter is
obvious when the examiner articulates reasons consistent with the level of
ordinary skill in the art at the time of the invention why (in the words of 35
U.S.C. § 103(a)) "the differences between the subject matter sought to be
patented and the prior art are such that the subject matter as a whole would
have been obvious at the time the invention was made to a person having
ordinary skill in the art to which said subject matter pertains."
ANALYSIS
The first step in determining whether the Examiner has established a
prima facie case for obviousness is to determine the scope and content of the
prior art. With respect to claim 1, Hillstrom discloses a decorative external
curtain assembly for applying a sheet of an "appropriate material" to a wall.
The parties do not dispute that the Examiner's contention that the
"appropriate material" could be a sheet of fabric material. (FF 1).
Phillips teaches complementary engageable fastener strips (namely,
hook-tape and loop-tape) sewn to a fabric material for engagement along an
entire edge of the fabric material. (FF 3). The limitation of claim 1:
wherein the complementary engageable fastener strips are made of a pair of strips, one strip having co-acting miniature hooks formed of a relatively rigid filament material and another of the strips having loops also formed of a relatively rigid filament material which engage one another to form a bond between the building and the fabric that is broken by pulling apart the pair of strips

1 merely describes the structure and predictable operation of such hook tape and loop tape. The parties do not dispute the Examiner's contention that the 2 use of hot glue or another adhesive for attaching lightweight materials such 3 4 as hook-and-loop material to solid surfaces such as the external facades of 5 buildings was within the level of ordinary skill in the art. (See Office 6 Action, Sept. 22, 2005 at 2-3). The second step in determining whether the Examiner has established 7 8 a prima facie case for obviousness is to ascertain the differences between the prior art and the claims at issue. The only differences between Hillstrom's 9 10 system and the subject matter of claim 1 is that, in the assembly of claim 1, a 11 fastener strip of hook-and-loop material sewn across an entire edge of a 12 fabric material and another fastener strip adhered to the building surface are used to fasten the fabric material to the building surface. (FF 2). The 13 14 fastener strips and their attachment arrangement are taught or suggested by Phillips. 15 The third step in determining whether the Examiner has established a 16 17 prima facie case for obviousness is to resolve the level of ordinary skill in 18 the art. The factors which may be considered in determining the level of 19 ordinary skill include the teachings of the prior art references themselves; 20 the education and experience of the inventor; and the sophistication of the 21 technology. Daiichi Sankyo Co. v. Apotex, Inc., 501 F.3d 1254, 1256 (Fed. 22 Cir. 2007). The Appellant does not contest that hook-and-loop material 23 predictably creates temporary bonds which are easily broken by pulling 24 apart the hook and loop tapes. (Specification 3). The Appellant's 25 background suggests that one skilled in the art would have had "considerable 26 experience with regard to the use of textiles and fabrics as articles of

1 manufacture" (Rule 132 Affidavit, Nov. 2, 2004, ¶ 2). Given this level of 2 experience and the well-known prevalence of hook-and-loop material in 3 garments and other textile products, one skilled in the art would have 4 recognized that hook-and-loop material could be used to fasten fabric 5 materials to substrates and that fabric materials fastened by hook-and-loop 6 material could be easily detached. (FF 4). Given the relatively 7 unsophisticated nature of the technology, one skilled in the art would have 8 had the capacity to use hook-and-loop material to hold and display a fabric 9 material against an external facade of a building. 10 The final step in determining whether the Examiner has established a 11 prima facie case of obviousness is to determine whether the Examiner 12 articulated reasons why the differences between the subject matter sought to 13 be patented and the prior art are such that the subject matter as a whole 14 would have been obvious to a person having ordinary skill in the art. The 15 reasons for combining the teachings of the prior art may arise from the 16 nature of the combination itself. For example, a simple substitution of one 17 known element for another according to a known method to obtain 18 predictable results is prima facie unpatentable. KSR, 127 S.Ct. at 1740. 19 In the present case, it would have been obvious to substitute hook-20 and-loop material sewn to a fabric material for engagement along an entire 21 edge of the fabric material as taught by Phillips into a system for holding 22 and displaying the fabric material on an exterior building surface as taught 23 by Hillstrom. Phillips taught that hook-and-loop material could be used to 24 hang a sheet of fabric material indoors. Substituting the hook-and-loop material of Phillips for the "frame device" of Hillstrom would not change 25 26 the manner in which the hook-and-loop material fastened the fabric material

to the building surface—the substitution would merely move the hook-and-1 2 loop material from an indoor location to an outdoor location. As such, the 3 results of the substitution would have been predictable. These reasons alone 4 suffice to establish a prima facie case that the subject matter of the claim 1 5 was obvious. 6 The Appellant argues that a passage in Hillstrom criticizing "known systems and devices" as unreliable, particularly when "placed outdoors 7 8 where they are subject to high winds and other harsh conditions" (Hillstrom, 9 col.1, ll. 32-34) teaches away from the substitution of hook-and-loop material for the "frame device" disclosed in Hillstrom. (Br. 8-9). The 10 11 Examiner correctly observed that Hillstrom does not criticize the use of 12 hook-and-loop material specifically to hold and display banners outdoors. (Ans. 4-5). The Examiner also observed that substituting hook-and-loop 13 material as taught by Phillips for the "frame device" disclosed by Hillstrom 14 in an outdoor display would "render changing of the banner easier." (Ans. 15 3; compare Specification 3 (stating that hook-and-loop material creates 16 17 temporary bonds that are easily broken by pulling apart the hook-and-loop strips) with Hillstrom, col. 5, ll. 41-63 (describing sequence of steps required 18 19 to change a banner held in Hillstrom's "frame device.")). Hillstrom does not 20 teach away from the claimed subject matter because the reference's criticism 21 of "known systems and devices" is not specific enough to have discouraged 22 one skilled in the art motivated to use hook-and-loop material to simplify the 23 changing of outdoor banners. 24 The Appellant further argues that the claimed subject matter was 25 intended to address the problem of displaying a sheet of fabric material 26 outdoors and that the alleged unreliability of hook-and-loop material renders

1 it unsuitable to solve this problem. In support of this argument, the Appellant cites In re Wright, 848 F.2d 1216, 1219 (Fed. Cir. 1988) for the 2 3 proposition that "the question posed, is whether what the Appellant did 4 would have been obvious to one of ordinary skill in the art attempting to 5 solve the problem upon which the inventor was working." (Br. 11 [emphasis 6 added]). This proposition does not represent the current state of the law. In re Translogic Tech., Inc., Appeal No. 2006-1192 slip op. at 18-19 (Fed. Cir. 7 8 Oct. 12, 2007); see also In re Dillon, 919 F.2d 688, 693 (Fed. Cir. 1990) (en 9 banc) (overruling Wright at least in part). The subject matter of claim 1 10 consists of known elements combined in a known manner yielding 11 predictable results. This rationale suffices to establish prima facie 12 obviousness. 13 The Appellant submitted a "Rule 132 Affidavit" declaring that, in the 14 Appellant's experience, 15 16 the idea that [hook-and-loop] tape could be 17 effectively used to attach a curtain to the outside of 18 a building where the curtain is subjected to harsh 19 environmental conditions is unexpected because the general opinion in the art is that [hook-and-20 21 loop material] would form too weak a bond to 22 effective [sic] hold the banner or curtain to the 23 exterior of the building when harsh environmental 24 conditions such as wind and rain are encountered 25 by the exterior curtain. 26 27 $(Id., \P 7)$. The Appellant's opinion regarding the legal issue of whether the 28 differences between the claimed subject matter and the prior art would have 29 been obvious to a person having ordinary skill in the art is not evidence in 30 the case. In re Lindell, 385 F.2d 453, 456 (C.C.P.A. 1967). To the extent

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